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| web and servers with quer\$ near caches | 15        |

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| <u>L3</u>  | ((((707/100)!.CCLS.) )                                      | 1057  | <u>L3</u>  |
| <u>L2</u>  | ((((707/10 )!.CCLS.) )                                      | 2045  | <u>L2</u>  |
| <u>L1</u>  | ((707/1 )!.CCLS. )  | 1501  | <u>L1</u>  |

END OF SEARCH HISTORY

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L29: Entry 12 of 15

File: USPT

Jun 29, 1999

US-PAT-NO: 5918232

DOCUMENT-IDENTIFIER: US 5918232 A

TITLE: Multidimensional domain modeling method and system

DATE-ISSUED: June 29, 1999

## INVENTOR-INFORMATION:

| NAME                | CITY          | STATE | ZIP CODE | COUNTRY |
|---------------------|---------------|-------|----------|---------|
| Pouschine; Nicholas | Fremont       | CA    |          |         |
| Stross; Kenner G.   | Oakland       | CA    |          |         |
| Brill; Michael L.   | San Francisco | CA    |          |         |

## ASSIGNEE-INFORMATION:

| NAME                     | CITY      | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------------|-----------|-------|----------|---------|-----------|
| Whitelight Systems, Inc. | Palo Alto | CA    |          |         | 02        |

APPL-NO: 8/ 978168 [PALM]

DATE FILED: November 26, 1997

INT-CL: [6] G06 F 17/30

US-CL-ISSUED: 707/103; 707/2, 707/3, 707/4

US-CL-CURRENT: 707/103R; 707/2, 707/3, 707/4

FIELD-OF-SEARCH: 707/103, 707/2, 707/3, 707/4

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

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|                          | PAT-NO         | ISSUE-DATE     | PATENTEE-NAME  | US-CL   |
|--------------------------|----------------|----------------|----------------|---------|
| <input type="checkbox"/> | <u>5367619</u> | November 1994  | Dipaolo et al. | 395/149 |
| <input type="checkbox"/> | <u>5495608</u> | February 1996  | Antoshenkov    |         |
| <input type="checkbox"/> | <u>5560007</u> | September 1996 | Thai           |         |
| <input type="checkbox"/> | <u>5592666</u> | January 1997   | Perez          |         |
| <input type="checkbox"/> | <u>5664172</u> | September 1997 | Antoshenkov    |         |
| <input type="checkbox"/> | <u>5666528</u> | September 1997 | Thai           |         |
| <input type="checkbox"/> | <u>5742738</u> | April 1998     | Koza et al.    | 395/13  |

ART-UNIT: 271

PRIMARY-EXAMINER: Amsbury; Wayne

ASSISTANT-EXAMINER: Lewis; Cheryl R.

ATTY-AGENT-FIRM: Guernsey; Larry B. Hughes; Michael J.

## ABSTRACT:

A system and method for computer modeling (10) and for creating hyperstructures (51) which are to be contained in a computer memory, which obtains measurements of physical objects and activities which are related to the entity to be modeled in the computer

5/29/02 1:06 PM

hyperstructure (51). The measurements are transformed into computer data which corresponds to the physical objects and activities external to the computer system (10). A plurality of independent dimensions (54) are created, where each dimension (54) includes at least one element (58). A plurality of cells (56) are created, each of which is associated with the intersection of two or more elements (58), each cell (56) being capable of storing at least one value. At least one rule domain (60) is associated with at least one cell (56), the rule domain (60) including at least one rule for assigning values to the associated cells (56). A domain modeling rule set (126) is prepared (300), which determines which of the rules will provide the value associated with each of the cells (56) wherein application of the domain modeling rule set (126) to the hyperstructure (51) causes a physical transformation of the data corresponding to said physical objects which are modeled in said hyperstructure (51).

Also disclosed is a method for querying computer hyperstructures (51), a Hyperstructure Query Language, and a "cell explorer", which allows direct viewing of the applied formulas that produce a specific value for a cell (56).

18 Claims, 17 Drawing figures

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L29: Entry 14 of 15

File: USPT

Mar 2, 1999

US-PAT-NO: 5878218

DOCUMENT-IDENTIFIER: US 5878218 A

TITLE: Method and system for creating and utilizing common caches for internetworks

DATE-ISSUED: March 2, 1999

## INVENTOR-INFORMATION:

| NAME                      | CITY   | STATE | ZIP CODE | COUNTRY |
|---------------------------|--------|-------|----------|---------|
| Maddalozzo, Jr.; John     | Austin | TX    |          |         |
| McBrearty; Gerald Francis | Austin | TX    |          |         |
| Shieh; Johnny Meng-Han    | Austin | TX    |          |         |

## ASSIGNEE-INFORMATION:

| NAME  | CITY   | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---|--------|-------|----------|---------|-----------|
| International Business Machines Corporation | Armonk | NY    |          |         | 02        |

APPL-NO: 8/ 819185 [PALM]

DATE FILED: March 17, 1997

INT-CL: [6] G06 F 13/00

US-CL-ISSUED: 395/200.43; 395/200.44, 395/200.46, 707/10

US-CL-CURRENT: 709/213; 707/10, 709/214, 709/216

FIELD-OF-SEARCH: 395/200.43, 395/200.44, 395/200.45, 395/200.46, 395/200.47, 395/200.48, 395/200.49, 395/200.53, 395/200.56, 707/8, 707/9, 707/10, 707/201, 707/203, 711/147, 711/153, 711/141

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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|                          | PAT-NO         | ISSUE-DATE     | PATENTEE-NAME    | US-CL      |
|--------------------------|----------------|----------------|------------------|------------|
| <input type="checkbox"/> | <u>4714992</u> | December 1987  | Gladney et al.   | 707/206    |
| <input type="checkbox"/> | <u>5204947</u> | April 1993     | Bernstein et al. | 345/357    |
| <input type="checkbox"/> | <u>5297249</u> | March 1994     | Bernstein et al. | 346/356    |
| <input type="checkbox"/> | <u>5438508</u> | August 1995    | Wyman            | 705/8      |
| <input type="checkbox"/> | <u>5442771</u> | August 1995    | Filepp et al.    | 395/200.49 |
| <input type="checkbox"/> | <u>5491820</u> | February 1996  | Belove et al.    | 707/3      |
| <input type="checkbox"/> | <u>5511160</u> | April 1996     | Robson           | 345/501    |
| <input type="checkbox"/> | <u>5568181</u> | October 1996   | Greenwood et al. | 348/7      |
| <input type="checkbox"/> | <u>5572643</u> | November 1996  | Judson           | 395/200.48 |
| <input type="checkbox"/> | <u>5583994</u> | December 1996  | Rangan           | 395/200.49 |
| <input type="checkbox"/> | <u>5671391</u> | September 1997 | Knotts           | 711/143    |
| <input type="checkbox"/> | <u>5721914</u> | February 1998  | DeVries          | 707/104    |
| <input type="checkbox"/> | <u>5740370</u> | April 1998     | Battersby et al. | 395/200.49 |

ART-UNIT: 278

PRIMARY-EXAMINER: Lall; Parshotam S.

ASSISTANT-EXAMINER: Vu; Viet

ATTY-AGENT-FIRM: Henkler; Richard A. Musgrove; Jack V. Dillon; Andrew J.

## ABSTRACT:

An improved method and system for accessing the most recent version of a requested data file that has been downloaded into a private network from a source external to the private network. The objects of the method and system are achieved as is now described. A network of computers is defined as private relative to one or more other networks of computers. More than one computer within said defined private network is specified as composing a "common cache." A copy of any data file entering the defined private network from a source external to the defined private network is cached at one or more computers which compose the defined "common cache." In response to a request from a computer within the defined private network for a specific data file which originates from a source external to the defined private network, a determination is made as to whether a copy of the requested specific data file is resident within the defined "common cache." The most recent version of the requested specific data file which is resident within said defined "common cache" is obtained if it was determined that a copy of the requested specific data file is resident within the defined "common cache." The requested specific data file is obtained from a source external to the defined private network if it was determined that a copy of the requested specific data file is not resident within the defined "common cache."

35 Claims, 10 Drawing figures